

Title (en)

THE ATMOSPHERIC COLD STEAM ENGINE AND OPERATING METHOD THEREOF

Title (de)

ATMOSPHÄRISCHER KALTDAMPFMOTOR UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

MOTEUR À VAPEUR FROIDE ATMOSPHERIQUE ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 3457052 A1 20190320 (EN)

Application

EP 18174541 A 20180528

Priority

LT 2017522 A 20170906

Abstract (en)

The invention relates to the atmospheric cold steam engine for generating mechanical energy through the use of atmospheric pressure and environmental thermal energy or excess of low temperature thermal energy released during production processes. The operating principle of the atmospheric cold steam engine is based on the characteristic of the materials to absorb or release the thermal energy during their transition from liquid to gaseous phases and vice versa. The purpose of the invention is to expand the possibilities of the heat pump by converting the thermal energy collected from the environment into the mechanical energy. The mechanical energy thus obtained can be used for the compressor of the same heat pump or be transformed into another type of an energy (electricity etc.) to be used by consumers in need.

IPC 8 full level

F25B 30/06 (2006.01); **F01K 11/00** (2006.01); **F01K 25/08** (2006.01)

CPC (source: EP)

F01K 11/00 (2013.01); **F01K 25/08** (2013.01); **F25B 30/02** (2013.01); **F25B 5/04** (2013.01); **F25B 2339/047** (2013.01)

Citation (applicant)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3457052 A1 20190320; EP 3457052 B1 20200108; LT 2017522 A 20190312; LT 6635 B 20190625

DOCDB simple family (application)

EP 18174541 A 20180528; LT 2017522 A 20170906